PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY	PCT
To: OTICON A/S Attn. Poulsen, Henning Knak Strandvejen 58 DK-2900 Hellerup DENMARK	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION
	(PCT Rule 44.1)
	Date of mailing (day/month/year) 04/03/2005
Applicant's or agent's file reference	
P-2003-023WO	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No.	International filing date (day/month/year)
PCT/DK2004/000613	16/09/2004
Applicant OTICON A/S	
Where? Directly to the International Bureau of WIPO, 34 1211 Geneva 20, Switzerland, Fast For more detailed instructions, see the notes on the accord The applicant is hereby notified that no international search Article 17(2)(a) to that effect and the written opinion of the Int With regard to the protest against payment of (an) addition the protest together with the decision thereon has been	is of the International Application (see Rule 46): hally 2 months from the date of transmittal of the details, see the notes on the accompanying sheet. chemin des Colombettes scimile No.: (41–22) 740.14.35 Inpanying sheet. Interport will be established and that the declaration under ternational Searching Authority are transmitted herewith. International Searching Authority are transmitted that: Intransmitted to the International Bureau together with the est and the decision thereon to the designated Offices. Illicant will be notified as soon as a decision is made. In international application will be published by the publication, a notice of withdrawal of the international arreau as provided in Rules 90bis.1 and 90bis.3, respectively, all publication. Inviten opinion of the International Searching Authority to the such comments to all designated Offices unless an stablished. These comments would also be made available to rity date. In designated Offices, a demand for international preliminary entry into the national phase until 30 months from the priority within 20 months from the priority date, perform the prescribed ces. In (or later) will apply even if no demand is filed within 19
Name and mailing address of the International Searching Authority European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,	Authorized officer Franco Spanu

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- (Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims):
 - "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

Notes to Form PCT/ISA/220 (second sheet) (January 1994)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER		see Form PCT/ISA/220			
P-2003-023WO	ACTION		as, where applicable, item 5 below.			
International application No.	International filing date (day/month/year)		(Earliest) Priority Date (day/month/year)			
PCT/DK2004/000613	16/09/2004		03/10/2003			
Applicant						
OTICON A/S						
This International Search Report has been according to Article 18. A copy is being tra			nority and is transmitted to the applicant			
This International Search Report consists	of a total ofst	eets.				
X It is also accompanied by	a copy of each prior art document	ited in this	report.			
Basis of the report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.						
The international this Authority (Ru		of a transl	ation of the international application furnished to			
b. With regard to any nucleo	otide and/or amino acid sequenc	e disclosed	in the international application, see Box No. I.			
2. Certain claims were fou	Certain claims were found unsearchable (See Box II).					
3. Unity of invention is lac	king (see Box III).					
4. With regard to the title,						
X the text is approved as su	ibmitted by the applicant.					
the text has been established	shed by this Authority to read as foll	ows:				
5. With regard to the abstract,						
	ubmitted by the applicant.					
the text has been establimay, within one month fr	the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.					
6. With regard to the drawings,						
a. the figure of the drawings to be published with the abstract is Figure No						
X as suggested by the applicant.						
	his Authority, because the applicant					
	nis Authority, because this figure be be published with the abstract.	usi ciidiaci	GNZES UIE INVENUON.			
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INTERNATIONAL SEARCH REPORT

International Application No PCT/DK2004/000613

A. CLASSII IPC 7	FICATION OF SUBJECT MATTER H04R25/02 H04R25/00				
	International Patent Classification (IPC) or to both national classification	tion and IPC			
	SEARCHED currentation searched (classification system followed by classification	n cumhole)			
IPC 7	H04R	ii Symuvis)			
Documentat	ion searched other than minimum documentation to the extent that su	ich rincuments are included. In the fields se	erched		
000011011101					
Electronic da	ata base consulted during the international search (name of data bas	e and, where practical, search terms used)		
EPO-In	ternal, WPI Data, PAJ				
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where appropriate, of the rele	vant passages	Relevant to claim No.		
А	US 6 522 764 B1 (BOEGESKOV-JENSEN 18 February 2003 (2003-02-18) the whole document	TOM)	1-5		
A	EP 0 453 200 A (UNITRON INDUSTRIE 23 October 1991 (1991-10-23) the whole document	1-5			
A	US 5 265 168 A (SCHIESS ET AL) 23 November 1993 (1993-11-23) the whole document				
Further documents are listed in the continuation of box C. Patent family members are listed in annex.					
° Special ca	stegories of cited documents:	"T" later document published after the inte			
A document defining the general state of the art which is not cited to understand the principle or theory underlying the considered to be of particular relevance invention					
E earlier document but published on or after the International filing date *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to					
which	"L" document which may throw doubts on priority claim(s) or involve an inventive step when the document is taken alone which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the				
O document referring to an oral disclosure, use, exhibition or other means document is combined with one or more other such documents, such combination being obvious to a person skilled					
'P' document published prior to the international filing date but later than the priority date claimed in the art. '&' document member of the same patent family					
Date of the actual completion of the international search Date of mailing of the International search report					
2	25 February 2005 04/03/2005				
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2					
	NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Fülöp, I				

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/DK2004/000613

Patent document cited in search report	Publication date		Patent family member(s)	Publication date	
US 6522764 B	1 18-02-2003	AT AU	256375 T 5969099 A	15-12-2003 26-04-2000	
		DE WO EP	69913554 D1 0021333 A2 1120009 A2	22-01-2004 13-04-2000 01-08-2001	
EP 0453200 A	23-10-1991	CA DE DE EP US	2014960 A1 69111668 D1 69111668 T2 0453200 A2 5204917 A	19-10-1991 07-09-1995 07-05-1997 23-10-1991 20-04-1993	
US 5265168 A	23-11-1993	EP AT DE DK	0491072 A1 123204 T 59009156 D1 491072 T3	24-06-1992 15-06-1995 29-06-1995 16-10-1995	

Form PCT/ISA/210 (patent family annex) (January 2004)

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

See form PCT/SA220 WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailling (day/month/year) see form PCT/SA220 (second sheet) Applicant's or agent's file reference see form PCT/SA220 Priority date (day/month/year) see form PCT/SA220 Priority date (day/month/year)	То:			PCT		
Applicant's or agent's file reference see form PCT/ISA/220 International application No. PCT/DK2004/000613 International filing date (day/month/year) PCT/DK2004/000613 International Patent Classification (IPC) or both national classification and IPC H04R25/02, H04R25/00 Applicant OTICON AS 1. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Box No. IV Lack of unity of invention Box No. IV Lack of unity of invention Box No. IV Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step and industrial applicability; citations and explanations supporting such statement Box No. VI Certain defects in the International application Box No. VII Certain defects in the International application Box No. VIII Certain observations on the international application If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/SA/220.	see form PCT/ISA/220		INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing			
International application No. International filing date (day/month/year) Priority date (day/month/year) 03.10.2003	Appl	icant's or agent's file reference				
International Patent Classification (IPC) or both national classification and IPC H04R25/02, H04R25/00 Applicant OTICON AS 1. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Box No. II Priority Box No. IV Lack of unity of invention Box No. IV Lack of unity of invention Box No. IV Certain documents cited Box No. V Certain decuments cited Box No. VII Certain decuments cited Box No. VIII Certain descriptions on the international application Box No. VIII Certain decuments cited Box No. VIII Certain descriptions on the international application Box No. VIIII Certain decenses on the international application Box No. VIIII Certain decenses on the international application Box No. VIIII Certain decenses on the international application Box No. VIIII Certain decenses on the international application Certain decenses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220.	see	form PCT/ISA/220				
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		submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date,				
3. For further details, see notes to Form PCT/ISA/220.		For further options, see Form PCT/ISA/220.				
	3.	3. For further details, see notes to Form PCT/ISA/220.				

Name and mailing address of the ISA:

Authorized Officer



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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/DK2004/000613

,					
	Box	No. I	Basis of the opinion		
1.	 With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. 				
		langua	pinion has been established on the basis of a translation from the original language into the following age , which is the language of a translation furnished for the purposes of international search r Rules 12.3 and 23.1(b)).		
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:				
	a. type of material:				
		as	sequence listing		
	C] tab	ple(s) related to the sequence listing		
	b. fo	rmat c	of material:		
		in C	written format		
) in (computer readable form		
	c. tir	ne of f	iling/turnishing:		
		J co	ntained in the international application as filed.		
] file	d together with the international application in computer readable form.		
] fur	nished subsequently to this Authority for the purposes of search.		
3.		has be copies	dition, in the case that more than one version or copy of a sequence listing and/or table relating thereto een filed or furnished, the required statements that the information in the subsequent or additional is is identical to that in the application as filed or does not go beyond the application as filed, as priate, were furnished.		

4. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/DK2004/000613

Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No: Claims

Inventive step (IS)

Yes: Claims

1-5

1-5

No: Claims

Industrial applicability (IA)

Yes: Claims

1-5

No: Claims

2. Citations and explanations

see separate sheet

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following document:

D1: US-B1-6 522 764 (BOEGESKOV-JENSEN TOM) 18 February 2003 (2003-02-18)

Document D1, which is considered to represent the most relevant state of the art, discloses (see, especially, abstract and figure 2) a hearing aid from which the subject-matter of **claim 1** differs in that "the microphone suspension comprises fixing means for attachment thereof to the circuit board".

The subject-matter of **claim 1** is therefore new (Article 33(2) PCT).

The problem to be solved by the present invention may be regarded as how to maximise the modularity of a hearing aid and to, consequently, improve the hearing aid assembling process.

The solution to this problem proposed in **claim 1** of the present application is considered as involving an inventive step (Article 33(3) PCT) for the following reasons:

- document D1, although acknowledging the necessity of simplification of the hearing aid assembling method, discloses a hearing aid in which the circuit board is separately fixed to the outer shell and the connection between the PCB and the microphone suspension is made only by soldering. The feature of supporting the microphone by the PCB, and therefore maximising the efficiency of the assembling process, is not suggested by the cited prior art.
- -the other documents cited in the search report are also disclosing different methods of snap locking parts but none of them takes into consideration mechanical coupling between microphone suspension and circuit board.

Claims 2-4 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/DK2004/000613

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